



Receipt date: 11/28/2006

10583677 - GAU: 1786

PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/583,677
				Filing Date	December 20, 2004 (Int'l Appl. No. PCT/GB2004/005392)
				First Named Inventor	Nalinkumar L. Patel
				Art Unit	
				Examiner Name	
Sheet	1	of	3	Attorney Docket Number	29610/CDT499

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,539,507	09-03-1985	VanSlyke et al.	
		US-5,061,569	10-29-1991	VanSlyke et al.	
		US-5,523,555	06-04-1996	Friend et al.	
		US-5,554,450	09-10-1996	Shi et al.	
		US-5,723,873	03-03-1998	Yang	
		US-5,798,170	08-25-1998	Zhang et al.	
		US-5,853,905	12-29-1998	So et al.	
		US-5,909,038	06-01-1999	Hwang et al.	
		US-6,107,452	08-22-2000	Miller et al.	
		US-6,127,693	10-03-2000	Chen et al.	
		US-6,268,695	07-31-2001	Affinito	
		US-6,953,628	10-11-2005	Kamatani et al.	
		US-7,030,138	04-18-2006	Fujimoto et al.	
		US-7,125,998	10-24-2006	Stossel et al.	
		US-2002/0096995	07-25-2002	Mishima et al.	
		US-2002/0117662	08-29-2002	Nii	
		US-2002/0182441	12-05-2002	Lamansky et al.	
		US-2003/0068526	04-10-2003	Kamatani et al.	
		US-2003/0091862	05-15-2003	Tokito et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		EP-0 707 020	08-23-2000	Axiva GmbH	
		EP-0 851 714	07-01-1998	Samsung Display Devices Co., Ltd.	
		EP-0 880 303	01-14-2004	Seiko Epson Corporation	
		EP-0 901 176	10-29-2003	Cambridge Display Technology Limited	
		EP-0 947 123	02-27-2002	Cambridge Display Technology Limited	
		EP-0 949 850	08-04-2004	Cambridge Display Technology Limited	
		EP-0 953 624	02-04-2004	Canon Kabushiki Kaisha	
		EP-1 245 659	10-02-2002	Sumitomo Chemical Company, Limited	
		JP-2002-050482	02-15-2002	Fuji Photo Film Co. Ltd.	✓
		JP-2002-324679	11-08-2002	Honda Motor Co. Ltd.	✓
		JP-2003-077673	03-14-2003	Honda Motor Co. Ltd.	✓
		WO 90/13148	11-01-1990	Cambridge Research And Innovation Limited	
		WO 96/16449	05-30-1996	Philips Electronics N.V.	

Examiner Signature	/Andrew K. Bohaty/	Date Considered	01/13/2011
--------------------	--------------------	-----------------	------------

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K.B./

PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
Sheet	2	of	3	Application Number	10/583,677
				Filing Date	December 20, 2004 (Int'l Appl. No. PCT/GB2004/005392)
				First Named Inventor	Nalinkumar L. Patel
				Art Unit	
				Examiner Name	
				Attorney Docket Number	29610/CDT499

	WO 96/20253	07-04-1996	Cambridge Display Technology Ltd.	
	WO 98/10621	03-12-1998	Cambridge Display Technology Limited	
	WO 99/54385	10-28-1999	The Dow Chemical Company	
	WO 00/48258	08-17-2000	Cambridge Display Technology Ltd.	
	WO 00/53656	09-14-2000	Cambridge Display Technology Limited	
	WO 00/55927	09-21-2000	Cambridge Display Technology Limited	
	WO 01/19142	03-15-2001	Uniax Corporation	
	WO 01/81649	11-01-2001	Battelle Memorial Institute	
	WO 02/31896	04-18-2002	E.I. Du Pont De Nemours And Company	
	WO 02/44189	06-06-2002	Canon Kabushiki Kaisha	
	WO 02/45466	06-06-2002	Canon Kabushiki Kaisha	
	WO 02/066552	08-29-2002	ISIS Innovation Limited	
	WO 02/068435	09-06-2002	Covion Organic Semiconductors GMBH	
	WO 02/081448	10-17-2002	Sankyo Company, Limited	
	WO 02/092723	11-21-2002	Cambridge Display Technology Limited	
	WO 03/001616	01-03-2003	Showa Denko K.K.	
	WO 03/018653	03-06-2003	Nippon Hoso Kyokai	
	WO 04/047197	06-03-2004	Universal Display Corporation	
	GB-2 348 316	09-27-2000	Cambridge Display Technology Limited	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Baldo <i>et al.</i> , "Highly Efficient Phosphorescent Emission From Organic Electroluminescent Devices," <i>Nature</i> , 395:151-154 (1998).	
		Baldo <i>et al.</i> , "Phosphorescent Materials for Application to Organic Light Emitting Devices," <i>Pure Appl. Chem.</i> , 71(11):2095-2106 (1999).	
		Baldo <i>et al.</i> , "Very High-Efficiency Green Organic Light-Emitting Devices Based on Electrophosphorescence," <i>Appl. Phys. Lett.</i> , 75(1):4-6 (1999).	
		Bernius <i>et al.</i> , "Progress with Light-Emitting Polymers," <i>Adv. Mater.</i> , 12(23):1737-1750 (2000).	

Examiner Signature	/Andrew K. Bohaty/	Date Considered	01/13/2011
--------------------	--------------------	-----------------	------------

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K.B./

PTO/SB/08A/B (09-06)

Approved for use through 03/31/2007. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/583,677
				Filing Date	December 20, 2004 (Int'l Appl. No. PCT/GB2004/005392)
				First Named Inventor	Nalinkumar L. Patel
				Art Unit	
				Examiner Name	
Sheet	3	of	3	Attorney Docket Number	29610/CDT499

	Brown <i>et al.</i> , "Optical Spectroscopy of Triplet Excitons and Charged Excitations in Poly(<i>p</i> -phenylenevinylene) Light-Emitting Diodes," <i>Chem. Phys. Letter</i> , 210(1-3):61-66 (1993).	
	Chen <i>et al.</i> , "Triplet Exciton Confinement in Phosphorescent Polymer Light-Emitting Diodes," <i>Appl. Phys. Lett.</i> , 82(7):1006-1008 (2003).	
	Cleave <i>et al.</i> , "Harvesting Singlet and Triplet Energy in Polymer LEDs," <i>Adv. Mater.</i> , 11(4):285-288 (1999).	
	Domercq <i>et al.</i> , "Photo-Crosslinkable Polymers as Hole-Transport Materials for Organic Light-Emitting Diodes," <i>Proc. SPIE</i> , 4642:88-96 (2000).	
	Gong <i>et al.</i> , "Electrophosphorescence from a Conjugated Copolymer Doped with an Iridium Complex: High Brightness and Improved Operational Stability," <i>Adv. Mater.</i> , 15(1):45-49 (2003).	
	Hung <i>et al.</i> , "Recent Progress of Molecular Organic Electroluminescent Materials and Devices," <i>Materials Science & Engineering, R</i> 39:143-222 (2002).	
	Ikai <i>et al.</i> , "Highly Efficient Phosphorescence from Organic Light-Emitting Devices with an Exciton-Block Layer," <i>Appl. Phys. Lett.</i> , 79(2):156-158 (2001).	
	Kim <i>et al.</i> , "Synthesis and Properties of Novel Triphenylamine Polymers Containing Ethynyl and Aromatic Moieties," <i>Synth. Metals</i> , 122:363-368 (2001).	
	Lane <i>et al.</i> , "Origin of Electrophosphorescence from a Doped Polymer Light Emitting Diode," <i>Phys. Rev. B</i> , 63:235206-1 - 235206-8 (2001).	
	Lee <i>et al.</i> , "Polymer Phosphorescent Light-Emitting Devices Doped with Tris(2-phenylpyridine) Iridium as a Triplet Emitter," <i>Appl. Phys. Lett.</i> , 77(15):2280-2282 (2000).	
	McGehee <i>et al.</i> , "Narrow Bandwidth Luminescence from Blends with Energy Transfer from Semiconducting Conjugated Polymers to Europium Complexes," <i>Adv. Mater.</i> , 11:1349-1354 (1999).	
	Muller <i>et al.</i> , "Multi-Colour Organic Light-Emitting Displays by Solution Processing," <i>Nature</i> , 421:829-833 (2003).	
	Noh <i>et al.</i> , "Energy Transfer and Device Performance in Phosphorescent Dye Doped Polymer Light Emitting Diodes," <i>J. Chem. Phys.</i> , 118(6):2853-2864 (2003).	
	Noh <i>et al.</i> , "Singlet and Triplet Energy Transfer in Phosphorescent Dye Doped Polymer Light Emitting Devices," <i>Mat. Res. Soc. Symp. Proc.</i> , 708:131-136 (2002).	
	O'Brien <i>et al.</i> , "Electrophosphorescence from a Doped Polymer Light Emitting Diode," <i>Synth. Met.</i> , 116:379-383 (2001).	
	Shirota, "Organic Materials for Electronic and Optoelectronic Devices," <i>J. Mater. Chem.</i> , 10:1-25 (2000).	
	Thompson <i>et al.</i> , "Electrophosphorescent Organic Light Emitting Diodes," <i>Polymeric Mater. Sci. Eng.</i> , 83:202-203 (2000).	
	Wohlgemann <i>et al.</i> , "Formation Cross-Sections of Singlet and Triplet Excitons in Pi-Conjugated Polymers," <i>Nature</i> , 409(6819):494-497 (2001).	
	Wohlgemann <i>et al.</i> , "Photophysics Properties of Blue-Emitting Polymers," <i>Synth. Met.</i> , 125:55-63 (2001).	
	Zhu <i>et al.</i> , "Synthesis of New Iridium Complexes and Their Electrophosphorescent Properties in Polymer Light-Emitting Diodes," <i>J. Mater. Chem.</i> , 13:50-55 (2003).	
	International Search Report for International Application No. PCT/GB2004/005392, dated June 14, 2005.	
	International Preliminary Report on Patentability for International Application No. PCT/GB2004/005392, dated June 20, 2006.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

Examiner Signature	/Andrew K. Bohaty/	Date Considered	01/13/2011
--------------------	--------------------	-----------------	------------

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.K.B./